

Product datasheet for RC201883

C21orf91 (NM_017447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C21orf91 (NM_017447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C21orf91
Synonyms:	C21orf14; C21orf38; CSSG1; EURL; YG81
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201883 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACGAAGAGGAGCAGTTTGTAAACATTGATTTGAATGATGACAACATTTGCAGTGTTTGTAACTGG
GAACAGACAAAGAAACACTCTCCTTCTGCCACATTTGTTTTGAGCTAAATATTGAGGGGGTACCAAAGTC
TGATCTCTTGACACCAAATCATTAAGGGGCCATAAAGACTGCTTTGAAAAATACCATTTAATTGCAAAC
CAGGGTTGTCCTCGATCTAAGCTTTCAAAAAGTACTTATGAAGAAGTTAAAACCATTTTGAGTAAGAAGA
TAAACTGGATTGTGCAGTATGCACAAAATAAGGATCTGGATTCTGAATGTTCTAAAAACCCCA
GCATCATCTGTTAATTTCAAGCATAAGCCAGAAGAAAAATTACTCCACAGTTTGAGTCCCAAGTACCA
AAATATTCTGCAAAATGGATAGATGGAAGTGCAGGTGGCATCTCTAACTGTACACAAAGAAATTTGGAGC
AGAGGGAAAAATACAGACTTTGGACTTTCTATGTTACAAGATTCAGGTGCCACTTTATGTCGTAACAGTGT
ATTGTGGCCTCATAGTCAACAACAGGCACAGAAAAAGAAGACAACTCTAGTCCAGAGGCTAATGTC
CAGACCCAGCATCCATTACAGCAGAGAGGAATTGAATTCGATGACTCTTGGTGAGGTAGAGCAACTGA
ATGCAAAGCTCTACAGCAAATCCAGGTTTTTGAAGAGTTAACTACCAAGTGAAGAAAAAGATTCTTT
GGCCTCACAGTCCATGTCCGCCAGTTGCCATCGAACAGCTTCTGAAGAAGTCTTAAGTTACCATGT
CTGCAAGTAGGGGAACAGGAATGAAGTGCACCTACCCATAAAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201883 protein sequence
Red=Cloning site Green=Tags(s)

MNEEEQFVNIDLNDNICSVCKLGTDKETLSFCHICFELNIEGVPKSDLLHTKSLRGHKDCFEKYHLIAN
 QGCPRSKLSKSTYEEVKTILSKKINWIVQYAQNKDLSDSECSKNPQHLLFNFRHKPEEKLLPQFESQVP
 KYSAKWIDGSAGGISNCTQRILEQRENTDFGLSMLQDSGATLCRNSVLWPHSHNQAKKEETISSPEANV
 QTQHPHYSREELNSMTLGEVEQLNAKLLQIQVFEELTHQVQEKDSLASQLHVRHVAIEQLLKNC SKLP
 LQVGRGTGMKSHLPINN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6538_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017447

ORF Size: 888 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_017447.2](#), [NP_059143.2](#)

RefSeq Size: 5448 bp

RefSeq ORF: 891 bp

Locus ID: 54149

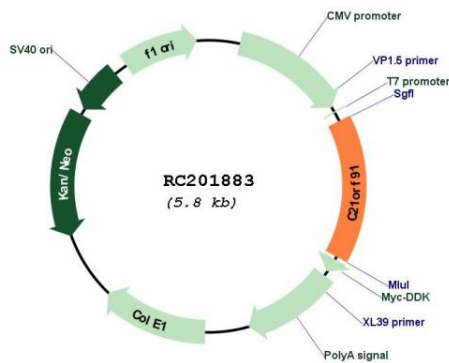
UniProt ID: [Q9NYK6](#)

Cytogenetics: 21q21.1

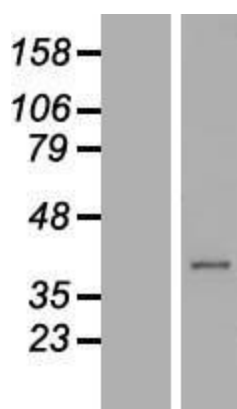
MW: 33.8 kDa

Gene Summary: Plays a role in cortical progenitor cell proliferation and differentiation. Promotes dendritic spine development of post-migratory cortical projection neurons by modulating the beta-catenin signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201883



Western blot validation of overexpression lysate (Cat# [LY413746]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201883 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).